

## **IN THE CLAIMS**

The following is a complete listing of claims with a status identifier in parenthesis.

### **LISTING OF CLAIMS**

1. (Currently Amended) A method implemented in a controller for setting a number of base stations that can be considered hand-off base stations comprising the steps of:  
measuring real-time traffic flow criteria associated with one or more base stations; and  
setting a number of base stations that can be considered hand-off base stations, from a neighbor list of potential hand-off base stations, depending on the measured traffic flow criteria.
2. (Previously Presented) The method as in claim 1 further comprising the step of setting the number of base stations so that the number is set below an initial number to prevent an overload traffic condition.
3. (Original) The method as in claim 1 further comprising the step of maintaining an initial neighbor list and generating an adaptable neighbor list of potential hand-off base stations based on traffic flows.
4. (Previously Presented) The method as in claim 1 further comprising automatically setting the number of base stations.
5. (Previously Presented) The method as in claim 1 further comprising decreasing the number of base stations as the traffic flow criteria worsens.
6. (Previously Presented) The method as in claim 1 further comprising increasing the number of base stations as traffic flow criteria improves.

7. (Previously Presented) The method as in claim 1 wherein the number of base stations included in the neighbor list of potential hand-off base stations is less than a maximum number of base stations included in an initial neighbor list.

8. (Currently Amended) The method as in claim ~~[[1]]~~ 3 further comprising the step of forwarding the adaptable neighbor list to a wireless device.

9. (Previously Presented) The method as in claim 1 wherein a wireless device is operable to enable a hand-off.

10. (Currently Amended) The method as in claim 1 wherein ~~[[the]]~~ at least one base station on the list is operable to enable a hand-off.

11. (Currently Amended) A method implemented in a controller for setting a number of base stations that can be considered hand-off base stations comprising the steps of:  
measuring real-time traffic flow criteria of a base station on ~~[[the]]~~ a list;  
comparing the measured flow criteria to a threshold; and  
setting a number of base stations that can be considered hand-off base stations associated with the threshold based on ~~[[the]]~~ results of the comparison.

12. (Previously Presented) The method as in claim 11 further comprising the steps of comparing the measured traffic flow criteria to a plurality of thresholds; and setting the number of base stations to a number associated with a last threshold of the plurality of thresholds exceeded by the measured traffic flow criteria.

13. (Original) The method as in claim 11 wherein a value of the threshold may change over time.

14. (Currently Amended) The method as in claim 12 wherein ~~[[the]]~~ a number of the plurality of thresholds may change over time.

15. (Previously Presented) The method as in claim 11 wherein the number of base stations associated with the threshold may change over time.

16. (Currently Amended) A method implemented in a controller for controlling hand-offs in a base station, comprising the steps of: measuring, in real-time, traffic flow criteria related to a wireless network; and controlling ~~[[the]]~~ a length of a neighboring base station list as a function of ~~[[the]]~~ a value of the traffic flow criteria.

17. (Original) A method for use in a wireless network comprising the step of enabling a base station currently serving a call for a wireless device to hand-off said call to another base station on its neighboring base station list only when a real-time measurement of a traffic flow criteria meets an acceptable level.

18. (Original) The method as in claim 17 further comprising the step of preventing said base station from handing-off said call when said traffic flow criteria does not meet said acceptable level.

19. (Currently Amended) A method for use in a wireless network comprising the step of enabling a first base station to hand-off a call being served by said first base station to a second base station on ~~[[said]]~~ a first base station's neighboring base station list only when a real-time measurement of traffic flow criteria indicates that said second base station can serve said call, whereby said call is not dropped by said second base station substantially immediately after said hand-off.

20. (Currently Amended) A system for setting a hand-off base station list, operable to:

measure real-time traffic flow criteria associated with one or more base stations; and

set a number of base stations that can be considered hand-off base stations, from a neighbor list of potential hand-off base stations, depending on the measured traffic flow criteria.

21. (Previously Presented) The system as in claim 20 comprising a control section operable to set the number of base stations so that the number is set below an initial number to prevent an overload traffic condition.

22. (Currently Amended) The system as in claim 20 comprising a control section operable to maintain an initial neighbor list and generate an adaptable neighbor list of potential hand-off base stations based on the traffic flow criteria.

23. (Previously Presented) The system as in claim 20 comprising a control section operable to automatically set the number of base stations.

24. (Currently Amended) The system as in claim 20 comprising a control section operable to decrease the number of base stations as the traffic flow criteria ~~worsen~~ worsens.

25. (Previously Presented) The system as in claim 20 comprising a control section operable to increase the number of base stations as the traffic flow criteria improves.

26. (Previously Presented) The system as in claim 20 wherein the number of base stations included in the neighbor list of potential hand-off base stations is less than a maximum number of base stations included in an initial neighbor list.

27. (Currently Amended) The system as in claim 20 comprising a control section operable to forward ~~[[the;]]~~ an adaptable neighbor list to a wireless device.

28. (Currently Amended) A system for setting a number of base stations that can be considered hand-off base stations, operable to:

measure real-time traffic flow criteria of a base station on ~~[[the]]~~ a list;

compare the measured flow criteria to a threshold; and

set a number of base stations that can be considered hand-off base stations associated with the threshold based on [[the]] results of the comparison.

29. (Previously Presented) The system as in claim 28 further operable to:  
compare the measured traffic flow criteria to a plurality of thresholds; and  
set the number of base stations to a number associated with a last threshold of the plurality of thresholds exceeded by the measured traffic flow criteria.

30. (Original) The system as in claim 28 wherein a value of the threshold may change over time.

31. (Currently Amended) The system as in claim 29 wherein [[the]] a number of the plurality of thresholds may change over time.

32. (Currently Amended) The system as in claim 28 wherein the set number of base stations from the ~~neighbor~~ list associated with the threshold may change over time.

33. (Currently Amended) A system for controlling hand-offs in a base station, operable to:  
measure, in real-time, traffic flow criteria related to a wireless network; and  
control [[the]] a length of a neighboring base station list as a function of [[the]] a value of the traffic flow criteria.

34. (Original) A system for use in a wireless network operable to enable a base station currently serving a call for a wireless device to hand-off said call to another base station on its neighboring base station list only when a real-time measurement of traffic flow criteria meets an acceptable level.

35. (Original) The system as in claim 34 further operable to prevent said base station from handing-off said call when said traffic flow criteria does not meet said acceptable level.

36. (Currently Amended) A system for use in a wireless network operable to enable a first base station to hand-off a call being served by said first base station to a second base station on [[said]] a first base station's neighboring base station list only when a real-time measurement of traffic flow criteria indicates that said second base station can serve said call, whereby said call is not dropped by said second base station substantially immediately after said hand-off.

37. (Previously Presented) A system for setting a hand-off base station list comprising:

means for measuring real-time traffic flow criteria associated with one or more base stations; and

means for setting a number of base stations that can be considered hand-off base stations, from a neighbor list of potential hand-off base stations, depending on the measured traffic flow criteria.

38. (Previously Presented) The system as in claim 37 comprising a control section having means for setting the number of base stations so that the number is set below an initial number to prevent an overload traffic condition.

39. (Currently Amended) The system as in claim 37 comprising a control section having means for decreasing the number of base stations as the traffic flow criteria worsen worsens .

40. (Previously Presented) The system as in claim 37 comprising a control section comprising means for increasing the number of base stations as the traffic flow criteria improves.

41. (Currently Amended) A system for setting a number of base stations that can be considered hand-off base stations, comprising:

means for measuring real-time traffic flow criteria of a base station on [[the]] a list;

means for comparing the measured flow criteria to a threshold; and

means for setting a number of base stations that can be considered hand-off base stations associated with the threshold based on [[the]] results of the comparison.

42. (Previously Presented) The system as in claim 41 comprising: means for comparing the measured traffic flow criteria to a plurality of thresholds; and means for setting the number of base stations to a number associated with a last threshold of the plurality of thresholds exceeded by the measured traffic flow criteria.

43. (Currently Amended) A system for controlling hand-offs in a base station, comprising: means for measuring, in real-time, traffic flow criteria related to a wireless network; and means for controlling [[the]] a length of a neighboring base station list as a function of [[the]] a value of the traffic flow criteria.

44. (Original) A system for use in a wireless network comprising means for enabling a base station currently serving a call for a wireless device to hand-off said call to another base station on its neighboring base station list only when a real-time measurement of traffic flow criteria meets an acceptable level.

45. (Original) The system as in claim 44 comprising means for preventing said base station from handing-off said call when said traffic flow criteria does not meet said acceptable level.

46. (Currently Amended) A system for use in a wireless network comprising means for enabling a first base station to hand-off a call being served by said first base station to a second base station on ~~[[said]]~~ a first base station's neighboring base station list only when real-time measurement of traffic flow criteria indicates that said second base station can serve said call, whereby said call is not dropped by said second base station substantially immediately after said hand-off.

47. (Currently Amended) The method as in claim 1 wherein the ~~measurement~~ measuring step further comprises:

measuring ~~[[the]]~~ a level of one or more pilot signals, each pilot signal being associated with a potential hand-off base station included in the neighbor list.

48. (Currently Amended) The system as in claim 20 further operable to: measure ~~[[the]]~~ a level of one or more pilot signals, each pilot signal being associated with a potential hand-off base station included in the neighbor list.

49. (Currently Amended) The system as in claim 37 further comprising: means for measuring ~~[[the]]~~ a level of one or more pilot signals, each pilot signal being associated with a potential hand-off base station included in the neighbor list.